

B. Brumbaum

RAW SEQUENCE LISTING DATE: 05/03/2001
PATENT APPLICATION: US/09/444,067 TIME: 12:06:23

Input Set : N:\Crf3\RULE60\09444067.txt
Output Set: N:\CRF3\05032001\I444067.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Murphy, Brian R.

7 Collins, Peter L.

8 Whitehead, Stephen S.

9 Bukreyev, Alexander A.

10 Juhasz, Katalin

12 (ii) TITLE OF INVENTION: PRODUCTION OF ATTENUATED RESPIRATORY
13 SYNCYTIAL VIRUS VACCINES FROM CLONED NUCLEOTIDE SEQUENCES

15 (iii) NUMBER OF SEQUENCES: 14

17 (iv) CORRESPONDENCE ADDRESS:

18 (A) ADDRESSEE: Townsend and Townsend and Crew LLP

19 (B) STREET: Two Embarcadero Center, 8th Floor

20 (C) CITY: San Francisco

21 (D) STATE: CA

22 (E) COUNTRY: USA

23 (F) ZIP: 94111-3834

25 (v) COMPUTER READABLE FORM:

26 (A) MEDIUM TYPE: Floppy disk

27 (B) COMPUTER: IBM PC compatible

28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

29 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

31 (vi) CURRENT APPLICATION DATA:

32 (A) APPLICATION NUMBER: US/09/444,067

C--> 33 (B) FILING DATE: 19-Nov-1999

34 (C) CLASSIFICATION:

44 (vii) PRIOR APPLICATION DATA:

37 (A) APPLICATION NUMBER: 08/892,403

38 (B) FILING DATE:

41 (A) APPLICATION NUMBER: US 60/046,141

42 (B) FILING DATE: 09-MAY-1997

45 (A) APPLICATION NUMBER: US 60/021,773

46 (B) FILING DATE: 15-JUL-1996

48 (viii) ATTORNEY/AGENT INFORMATION:

49 (A) NAME: Parmelee, Steven W.

50 (B) REGISTRATION NUMBER: 31,990

51 (C) REFERENCE/DOCKET NUMBER: 17634-000510

53 (ix) TELECOMMUNICATION INFORMATION:

54 (A) TELEPHONE: 206-467-9600

55 (B) TELEFAX: 415-576-0300

58 (2) INFORMATION FOR SEQ ID NO: 1:

60 (i) SEQUENCE CHARACTERISTICS:

61 (A) LENGTH: 15223 base pairs

62 (B) TYPE: nucleic acid

63 (C) STRANDEDNESS: single

64 (D) TOPOLOGY: linear

66 (ii) MOLECULE TYPE: cDNA

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70	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
72	ACCGAAAAAA ATGCGTACAA CAAACTGCA TAAACCAAAA AAATGGGGCA AATAAGAATT	60
74	TGATAAGTAC CACTTAAATT TAACTCCCTT GGTAGAGAT GGGCAGCAAT TCATTGAGTA	120
76	TGATAAAAGT TAGATTACAA AATTTGTTTG ACAATGATGA AGTAGCATTG TTAAAAATAA	180
78	CATGCTATAC TGATAAATTAA ATACATTAA CTAATGCTT GGCTAAGGCA GTGATACATA	240
80	CAATCAAATT GAATGGCATT GTGTTGTGC ATGTTATTAC AAGTAGTGAT ATTTGCCCTA	300
82	ATAATAATAT TGTAGTAAAA TCCAATTTC CAACAATGCC AGTACTACAA AATGGAGGTT	360
84	ATATATGGAA ATGATGGAA TTAACACATT GCTCTCAACC TAATGGTCTA CTAGATGACA	420
86	ATTGCAAAT TAAATTCTCC AAAAAGCTAA GTGATTCAAC AATGACCAAT TATATGAATC	480
88	AATTATCTGA ATTACTTGA TTTGATCTTA ATCCATAAAT TATAATTAAAT ATCAACTAGC	540
90	AAATCAATGT CACTAACACC ATTAGTTAAT ATAAAACCTA ACAGAAGACA AAAATGGGGC	600
92	AAATAAATCA ATTCAGCCAA CCCAACCATG GACACAACCC ACAATGATAA TACACCACAA	660
94	AGACTGATGA TCACAGACAT GAGACCGTTG TCACITGAGA CCATAATAAC ATCACAACC	720
96	AGAGACATCA TAACACACAA ATTTATATAC TTGATAAATC ATGAATGCAT AGTGAGAAAA	780
98	CTTGATGAAA AGCAGGCCAC ATTTACATTC CTGGTCAACT ATGAAATGAA ACTATTACAC	840
100	AAAGTAGGAA GCACTAATAA TAAAAAAATAT ACTGAATACA ACACAAAATA TGGCACTTTC	900
102	CCTATGCCAA TATTATCAA TCATGATGGG TTCTTAAAGT GCATTGGCAT TAAGCCTACA	960
104	AAGCATACTC CCATAATATAA CAAGTATGAT CTCATCCAT AAATTCAC ACATATTCA	1020
106	CACAATCTAA AACAAACAAT CTATGCATAA CTATACTCCA TAGTCCAGAT GGAGCCTGAA	1080
108	AATTATAGTA ATTTAAACTA TAAGGAGAGA TATAAGATAG AAGATGGGGC AAATACAACC	1140
110	ATGGCTCTTA GCAAAGTCAA GTTGAATGAT ACACTCAACA AAGATCAACT TCTGTATCC	1200
112	AGCAAATACA CCATCCAAACG GAGCACAGGA GATAGTATTG ATACTCCTAA TTATGATGTG	1260
114	CAGAAACACA TCAATAAGTT ATGTCGGCATG TTATTAATCA CAGAAGATGC TAATCATAAA	1320
116	TTCACTGGGT TAATAGGTAT GTTATATGCG ATGTCTAGGT TAGGAAGAGA AGACACCATA	1380
118	AAAATACTCA GAGATGCCGG ATATCATGTA AAAGCAAATG GAGTAGATGT AACAAACACAT	1440
120	CGTCAAGACA TTAATGGAAA AGAAATGAAA TTGAAAGTGT TAACATTGGC AAGCTTAACA	1500
122	ACTGAAATTCA AAATCAACAT TGAGATAGAA TCTAGAAAAT CCTACAAAAA AATGCTAAAA	1560
124	GAAATGGGAG AGGTAGCTCC AGAATACAGG CATGACTCTC CTGATTGTGG GATGATAATA	1620
126	TTATGTATAG CAGCATTAGT AATAACTAAA TTAGCAGCAG GGGACAGATC TGGCTTACA	1680
128	GCCGTGATTA GGAGAGCTAA TAATGCTCTA AAAAATGAAA TGAAACGTTA CAAAGGCTTA	1740
130	CTACCCAAGG ACATAGCCAA CAGCTCTAT GAAGTGTGTTG AAAAACATCC CCACCTTATA	1800
132	GATGTTTTG TTCATTTGG TATAGCACAA TCTTCTACCA GAGGTGGCAG TAGAGTTGAA	1860
134	GGGATTTTG CAGGATTGTT TATGAATGCC TATGGTGCAG GGCAAGTGAT GTTACGGTGG	1920
136	GGAGTCTTAG CAAAATCACT TAAAAATATT ATGTTAGGAC ATGCTAGTGT GCAAGCAGAA	1980
138	ATGGAACAAG TTGTTGAGGT TTATGAATAT GCCCAAAAAT TGGGTGGTGA AGCAGGATTC	2040
140	TACCATATAT TGAACAAACCC AAAAGCATCA TTATTATCTT TGACTCAATT TCCTCACTTC	2100
142	TCCAGTGTAG TATTAGGCAA TGCTGCTGGC CTAGGCATAA TGGGAGAGTA CAGAGGTACA	2160
144	CCGAGGAATC AAGATCTATA TGATGCAGCA AAGGCATATG CTGAACAAC TAAAGAAAAT	2220
146	GGTGTGATTA ACTACAGTGT ACTAGACTTG ACAGCAGAAAG AACTAGAGGC TATCAAACAT	2280
148	CAGCTTAATC CAAAAGATAA TGATGTAGAG CTTTGAGTTA ATAAAAAAATG GGGCAAAATAA	2340
150	ATCATCATGG AAAAGTTGC TCCTGAATTG CATGGGAAAG ATGCAAACAA CAGGGCTACT	2400
152	AAATTCTTAG AATCAATAAA GGGCAAATTG ACATCACCCA AAGATCCAA GAAAAAAGAT	2460
154	AGTATCATAT CTGTCACACTC AATAGATATA GAAGTAACCA AAGAAAGCCC TATAACATCA	2520
156	AATTCAACTA TTATCAACCC AACAAATGAG ACAGATGATA CTGCAGGGAA CAAGCCCAAT	2580
158	TATCAAAGAA AACCTCTAGT AAGTTCAAA GAAGACCCCTA CACCAAGTGA TAATCCCTT	2640
160	TCTAAACTAT ACAAAAGAAC CATAGAACCA TTTGATAACA ATGAAGAAGA ATCCAGCTAT	2700
162	TCATACGAAG AAATAAAATGA TCAGACAAAC GATAATATAA CAGCAAGATT AGATAGGATT	2760
164	GATGAAAAT TAAGTGAAT ACTAGGAATG CTTCACACAT TAGTAGTGGC AAGTGCAGGA	2820
166	CCTACATCTG CTCGGGATGG TATAAGAGAT GCCATGGTTG GTTTAAGAGA AGAAATGATA	2880

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168	GAAAAAATCA	GAACGTGAAAGC	ATTAATGACC	AATGACAGAT	TAGAACGCTAT	GGCAAGACTC	2940
170	AGGAATGAGG	AAAGTGAAAA	GATGGCAAAA	GACACATCG	ATGAAGTGT	TCTCAATCCA	3000
172	ACATCAGAGA	AATTGAACAA	CCTATTGGAA	GGGAATGATA	GTGACAATGA	TCTATCACTT	3060
174	GAAGATTCT	GATTAGTTAC	CAATCTTCAC	ATCAACACAC	AATACCAACA	GAAGACCAAC	3120
176	AAACAACTCA	ACCCAAATCAT	CCAACCAAAC	ATCCATCCGC	CAATCAGCCA	AACAGCCAAC	3180
178	AAACAACTCA	GCCAATCCAA	AACTAACCCAC	CCGGAAAAAA	TCTATAATAT	AGTTACAAAAA	3240
180	AAAGGAAAGG	GTGGGGCAAA	TATGAAACAC	TACGTGAACA	AGCTTCACGA	AGGCTCCACA	3300
182	TACACAGCTG	CTGTTCAATA	CAATGCTTTA	AAAAAAAGACG	ATGACCCCTGC	ATCACTTACA	3360
184	ATATGGGTGC	CCATGTTCCA	ATCATCTATG	CCACCGAGATT	TACTTATAAA	AGAACTAGCT	3420
186	AATGTCAACA	TACTAGTGAA	ACAAATATCC	ACACCCAAAGG	GACCTTCACT	AAGAGTCATG	3480
188	ATAAAACTCAA	GAAGTGCAGT	GCTAGCACAA	ATGCCAGCA	AATTTCACAT	ATCGGCTAAT	3540
190	GTGTCCTTGG	ATGAAAGAAG	CAAACATAGCA	TATGATGTAA	CCACACCTG	TGAAATCAAG	3600
192	GCATGTAGTC	TAACATGCCT	AAAATCAAAA	AAATATGTTGA	CTACAGTTAA	AGATCTCACT	3660
194	ATGAAGACAC	TCAACCCCTAC	ACATGATATT	ATTGCTTTAT	GTGAATTGAA	AAACATAGTA	3720
196	ACATCAAAAA	AAGTCATAAT	ACCAACATAC	CTAACATCA	TCAGTGTCA	AAATAAAGAT	3780
198	CTGAACACAC	TTGAAAATAT	AAACAACTC	GAATTCAAAA	ATGCTATCAC	AAATGCAAAA	3840
200	ATCATCCCTT	ACTCAGGATT	ACTATTAGTC	ATCACAGTGA	CTGACAAACAA	AGGAGCATTC	3900
202	AAATACATAA	AGCCACAAAG	TCAATTCTAC	GTAGATCTTG	GAGCTTACCT	AGAAAAAGAA	3960
204	AGTATATATT	ATGTTACCAC	AAATTGGAAG	CACACAGCTA	CACGATTTC	AATCAAACCC	4020
206	ATGGAAGATT	AACCTTTTC	CTCTACATCA	GTGTGTTAAAT	TCATACAAAC	TTTCTACCTA	4080
208	CATTCTTCAC	TTCACCATCA	CAATCACAAA	CACTCTGTGG	TTCAACCAAT	CAAACAAAAC	4140
210	TTATCTGAAG	TCCCAGATCA	TCCCAAGTCA	TTGTTTATCA	GATCTAGTAC	TCAAATAAGT	4200
212	TAATAAAAAA	TATACACATG	GGGCAAAATAA	TCATTGGAGG	AAATCCAAC	AATCACAATA	4260
214	TCTGTTAAC	TAGACAAGTC	CACACACCAT	ACAGAACCAA	CCAATGGAAA	ATACATCCAT	4320
216	AACAATAGAA	TTCTCAAGCA	AATTCTGGCC	TTACTTTACA	CTAATACACA	TGATCACAAC	4380
218	AATAATCTCT	TTGCTAATCA	TAATCTCCAT	CATGATTGCA	ATACTAAACA	AACTTTGTGA	4440
220	ATATAACGTA	TTCCATAACA	AAACCTTTGA	GTTACCAAGA	GCTCGAGTCA	ACACATAGCA	4500
222	TTCATCAATC	CAACAGCCC	AAACAGTAAC	CTTGCAATT	AAAATGAACA	ACCCCTACCT	4560
224	CTTACAACAA	CCTCATTAAC	ATCCCACCAT	GCAAACCACT	ATCCATACTA	TAAAGTAGTT	4620
226	AATTAAAAAT	AGTCATAACA	ATGAACTAGG	ATATCAAGAC	TAACAATAAC	ATTGGGGCAA	4680
228	ATGAAACACAT	GTCCAAAAAC	AAGGACCAAC	GCACCGCTAA	GACATTAGAA	AGGACCTGGG	4740
230	ACACTCTCAA	TCATTTATTA	TTCATATCAT	CGTGTCTATA	TAAGTTAAAT	CTTAAATCTG	4800
232	TAGCACAAAT	CACATTATCC	ATTCTGGCA	TGATAATCTC	AACTTCACTT	ATAATTGCAG	4860
234	CCATCATATT	CATAGCCTCG	GCAAACCCACA	AAAGTCACACC	AACAACGTCA	ATCATACAAG	4920
236	ATGCAACAAAG	CCAGATCAAG	AAACACAAACCC	CAACATACCT	CACCCAGAAT	CCTCAGCTTG	4980
238	GAATCAGTCC	CTCTAATCCG	TCTGAAATT	CATCACAAAT	CACCAACATA	CTAGCTTCAA	5040
240	CAACACCAGG	AGTCAAGTCA	ACCCCTGAAT	CCACAAACAGT	CAAGACCAAA	AACACAAACAA	5100
242	CAACTAACAC	ACAACCCAGC	AAGGCCACCA	CAAACACAAACG	CCAAAACAAA	CCACCAAGCA	5160
244	AACCCAATAA	TGATTTTCAC	TTTGAAGTGT	TCAACTTTGT	ACCCCTGCAGC	ATATGCAGCA	5220
246	ACAATCCAAC	CTGCTGGGCT	ATCTGCAAAA	GAATACCAA	CAAAAAACCA	GGAAAGAAAA	5280
248	CCACTACCAA	GCCCACAAAA	AAACCAACCC	TCAAGACAAAC	CAAAAAGAT	CCCAAACCTC	5340
250	AAACCAACTA	ATCAAAGGAA	GTACCCACCA	CCAAAGCCAC	AGAAGAGCCA	ACCATCAACA	5400
252	CCACCAAAAC	AAACATCATCA	ACTACACTAC	TCACCTCCAA	CACCAACAGGA	AATCCAGAAC	5460
254	TCACAAGTCA	AATGGAAACC	TTCCACATCAA	CTTCCTCCGA	AGGCAATCCA	AGCCCTTCTC	5520
256	AAGTCTCTAC	AACATCCGAG	TACCCATCAC	AACTTTCATC	TCCACCCAAAC	ACACCACGCC	5580
258	AGTAGTTACT	TTAAACACATA	TTATCACAAA	AGGCCTTGAC	CAACTTAAAC	AGAATCAAAA	5640
260	TAAACTCTGG	GGCAAATAAC	AATGGAGTTG	CTAATCCTCA	AAGCAATGC	AATTACCAACA	5700
262	ATCCTCACTG	CAGTCACATT	TTGTTTGT	TCTGGTCAAA	ACATCACTGA	AGAATTCTTAT	5760
264	CAATCAACAT	GCAGTGCAGT	TAGCAAAGGC	TATCTTAGTG	CTCTGAGAAC	TGGTTGGTAT	5820

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266	ACCAAGTGTAA	TAACATATAGA	ATTAAGTAAT	ATCAAGAAAA	ATAAGTGTAA	TGGAACAGAT	5880
268	GCTAAGGTAA	AATTGATAAAA	ACAAGAATTA	GATAAATATA	AAAATGCTGT	AACAGAATTG	5940
270	CAGTTGCTCA	TGCAAAGCAC	ACAAGCAACA	AACAATCGAG	CCAGAAGAGA	ACTACCAAGG	6000
272	TTTATGAATT	ATACACTCAA	CAATGCCAAA	AAAACCAATG	TAACATTAAG	CAAGAAAAGG	6060
274	AAAAGAAGAT	TTCTTGGTTT	TTTGTAGGT	GTTGGATCTG	CAATGCCAG	TGGCGTTGCT	6120
276	GTATCTAAGG	TCCTGCACCT	AGAAGGGAA	GTGAACAAGA	TCAAAAGTGC	TCTACTATCC	6180
278	ACAAACAAGG	CTGTAGTCAG	CTTATCAAAT	GGAGTTAGTG	TTTTAACCGAG	CAAAGTGTAA	6240
280	GACCTCAAAA	ACTATATAGA	TAACAAATTG	TTACCTATTG	TGAACAAGCA	AAGCTGCAGC	6300
282	ATATCAAATA	TAGAAACTGT	GATAGAGTTC	CAACAAAAGA	ACAACAGACT	ACTAGAGATT	6360
284	ACCAGGGAAT	TTAGTGTAA	TGCAGCGTA	ACTACACCTG	TAAGCCTTA	CATGTTAACT	6420
286	AATAGTGAAT	TATTGTCATT	AATCAATGAT	ATGCCTATAA	CAAATGATCA	GAAAAAGTTA	6480
288	ATGTCCAACA	ATGTTCAAAT	AGTTAGACAG	CAAAGTTACT	CTATCATGTC	CATAATAAAA	6540
290	GAGGAAGTCT	TAGCATATGT	AGTACAATT	CCACTATATG	GTGTTATAGA	TACACCCCTGT	6600
292	TGGAAACTAC	ACACATCCCC	TCTATGTACA	ACCAACACAA	AAGAAGGGTC	CAACATCTGT	6660
294	TTAACAAAGAA	CTGACAGAGG	ATGGTACTGT	GACAATGCAG	GATCAGTATC	TTTCTTCCCA	6720
296	CAAGCTGAAA	CATGTTAAAG	TCAATCAAAT	CGAGTATTTT	GTGACACAAT	GAACAGTTA	6780
298	ACATTACCAA	GTGAAGTAAA	TCTCTGCAAT	GTTGACATAT	TCAACCCAA	ATATGATTGT	6840
300	AAAATTATGA	CTTCAAAAAAC	AGATGTAA	AGCTCCGTTA	TCACATCTCT	AGGAGCCATT	6900
302	GTGTCATGCT	ATGGCAAAAC	TAATGTACA	GCATCCAATA	AAAATCGTGG	AATCATAAAG	6960
304	ACATTTCTA	ACGGGTGCGA	TTATGTATCA	AATAAAGGGG	TGGACACTGT	GTCTGTAGGT	7020
306	AACACATTAT	ATTATGTAAA	TAACCAAGAA	GGTAAAAGTC	TCTATGTAAA	AGGTGAACCA	7080
308	ATAATAAATT	TCTATGACCC	ATTAGTATTG	CCCTCTGATG	AATTGATGC	ATCAATATCT	7140
310	CAAGTCAACG	AGAAGATTAA	CCAGAGCCTA	GCATTTATTG	GTAAATCCGA	TGAATTATTA	7200
312	CATAATGTAA	ATGCTGGTAA	ATCCACCACA	AATATCATGA	TAACTACTAT	AATTATAGTG	7260
314	ATTATAGTAA	TATTGTTATC	ATTAATTGCT	GTTGGACTGC	TCTTATACTG	TAAGGCCAGA	7320
316	AGCACACCAG	TCACACTAAG	CAAAGATCAA	CTGAGTGGTA	TAAATAATAT	TGCATTTAGT	7380
318	AACTAAATAA	AAATAGCACC	TAATCATGTT	CTTACAATGG	TTTACTATCT	GCTCATAGAC	7440
320	AACCCATCTG	TCATTGGATT	TTCTTAAAT	CTGAACTTCA	TCGAAACTCT	CATCTATAAA	7500
322	CCATCTCACT	TACACTATT	AAAGTAGATT	CTAGTTTATA	GTTATATAAA	ACACAATTGC	7560
324	ATGCCAGATT	AACTTACCAT	CTGTAAAAAT	GAAAACCTGGG	GCAAATATGT	CACCAAGGAA	7620
326	TCCTTGCAAA	TTGAAATTC	GAGGTCATTG	CTTAAATGGT	AAGAGGTGTC	ATTTTAGTCA	7680
328	TAATTATTTT	GAATGGCCAC	CCCATGCACT	GCTTGTAAAGA	CAAACCTTTA	TGTAAACAG	7740
330	AATACTTAAAG	TCTATGGATA	AAAGTATAGA	TACCTTATCA	GAAATAAGTG	GAGCTGCAGA	7800
332	GTTGGACAGA	ACAGAAGAGT	ATGCTCTTGG	TGTAGTTGGA	GTGCTAGAGA	GTTATATAGG	7860
334	ATCAATAAAC	AATATAACTA	AAACATCAGC	ATGTGTTGCC	ATGAGCAAC	TCCTCACTGA	7920
336	ACTCAATAGT	GATGATATCA	AAAAGCTGAG	GGACAATGAA	GAGCTAAATT	CACCCAAAGAT	7980
338	AAGAGTGTAC	AATACTGTCA	TATCATATAT	TGAAAGCAAC	AGGAAAAAAC	ATAAACAAAC	8040
340	TATCCATCTG	TTAAAAAGAT	TGCCAGCAGA	CGTATTGAAAG	AAAACCATCA	AAAACACATT	8100
342	GGATATCCAT	AAAGAGCATAA	CCATCAACAA	CCCAAAAGAA	TCAACTGTAA	GTGATACAAA	8160
344	TGACCATGCC	AAAAAAATATG	ATACTACCTG	ACAAATATCC	TTGTTAGTATA	ACTTCCATAC	8220
346	TAATAACAAG	TAGATGTAGA	GTTACTATGT	ATAATCAAAA	GAACACACTA	TATTTCATAC	8280
348	AAAACAACCC	AAATAACCAT	ATGTACTCAC	CGAATCAAAC	ATTCAATGAA	ATCCATTGGA	8340
350	CCTCTCAAGA	ATTGATTGAC	ACAATTCAA	ATTTTCTACA	ACATCTAGGT	ATTATTGAGG	8400
352	ATATATATAC	AATATATATA	TTAGTGTCA	AAACACTCAAT	TCTAACACTC	ACCACATCGT	8460
354	TACATTATTA	ATTCAAACAA	TTCAAGTTGT	GGGACAAAAT	GGATCCATT	ATTAATGGAA	8520
356	ATTCTGCTAA	TGTTTATCTA	ACCGATAGTT	ATTTAAAAGG	TGTTATCTCT	TTCTCAGAGT	8580
358	GTAATGCTTT	AGGAAGTTAC	ATATTCAATG	GTCCTTATCT	CAAAAATGAT	TATACCAACT	8640
360	TAATTAGTAG	ACAAAATCCA	TTAATAGAAC	ACATGAATCT	AAAGAAACTA	AATATAACAC	8700
362	AGTCCTTAAT	ATCTAAGTAT	CATAAAGGTG	AAATAAAATT	AGAAGAACCT	ACTTATTTC	8760

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364	AGTCATTACT	TATGACATAC	AAGAGTATGA	CCTCGTCAGA	ACAGATTGCT	ACCACTAATT	8820
366	TACTAAAAAA	GATAATAAGA	AGAGCTATAG	AAATAAGTGA	TGTCAAAGTC	TATGCTATAT	8880
368	TGAATAAACT	AGGGCTTAAA	GAAAAGGACA	AGATTAATC	CAACAATGGA	CAAGATGAAG	8940
370	ACAACTCAGT	TATTACGACC	ATAATCAAAG	ATGATATACT	TTCAGCTGTT	AAAGATAATC	9000
372	AACCTCATCT	TAAGCAGAC	AAAAATCACT	CTACAAAACA	AAAAGACACA	ATCAAAACAA	9060
374	CACTCTTGA	GAAATTGATG	TGTTCAATGC	AACATCCTCC	ATCATGGTTA	ATACATTGGT	9120
376	TTAACTTATA	CACAAAATT	AACAACATAT	TAACACAGTA	TCGATCAAAT	GAGGTA	9180
378	ACCATGGGTT	TACATTGATA	GATAATCAA	CTCTTAGTGG	ATTCATTTT	ATTTGAACC	9240
380	AATATGGTTG	TATAGTTAT	CATAAGGAAC	TCAAAAGAAT	TACTGTGACA	ACCTATAATC	9300
382	AATTCTTGAC	ATGGAAAGAT	ATTAGCCTT	GTAGATTAAA	TGTTGTTTA	ATTACATGGA	9360
384	TTAGTAAC	CTTGAACACA	TTAAATAAAA	GCTTAGGCTT	AAGATGCCGA	TTCAATAATG	9420
386	TTATCTTGAC	ACAACTATTC	CTTTATGGAG	ATTGTACT	AAAGCTATT	CACAATGAGG	9480
388	GGTCTACAT	AATAAAAGAG	GTAGAGGGAT	TTATTATGTC	TCTAATT	TTAATTAACAG	9540
390	AAGAAGATCA	ATTCAAGAAA	CGATTTATA	ATAGTATGCT	CAACAACATC	ACAGATGCTG	9600
392	CTAATAAAAGC	TCAGAAAAAT	CTGCTATCAA	GAGTATGTC	TACATTATTA	GATAAGACAG	9660
394	TGTCGATAA	TATAATAAA	GGCAGATGGA	TAATTCTATT	AAGTAAGTTC	CTTAAATTAA	9720
396	TTAACCTG	AGGTGACAAT	AACCTTAACA	ATCTGAGTGA	ACTATATT	TTGTTCAGAA	9780
398	TATTGGACA	CCCAATGGTA	GATGAAAGAC	AAGCCATGGA	TGCTGTTAA	ATTAATTGCA	9840
400	ATGAGACCA	ATTTACTTG	TTAACGAGTC	TGAGTATGTT	AAGAGGTGCC	TTTATATATA	9900
402	GAATTATAAA	AGGGTTGTA	AATAATTACA	ACAGATGGCC	TACTTTAAGA	AATGCTATTG	9960
404	TTTACCCCTT	AAGATGGTTA	ACTTACTATA	AACTAAACAC	TTATCCTTCT	TTGTTGGAAC	10020
406	TTACAGAAAG	AGATTGATT	GTGTTATCAG	GAETACGTTT	CTATCGAG	TTTCGGTTGC	10080
408	CTAAAAAAAGT	GGATCTTGAA	ATGATTATAA	ATGATAAAGC	TATATCACCT	CCTAAAAATT	10140
410	TGATATGGAC	TAGTTCCCT	AGAAATTACA	TGCCATCACA	CATACAAAAC	TATATAGAAC	10200
412	ATGAAAATT	AAAATTTCC	GAGAGTGATA	AATCAAGAAG	AGTATTAGAG	TATTATTTAA	10260
414	GAGATAACAA	ATTCAATGAA	TGTGATTAT	ACAACGTG	AGTTAATCAA	AGTTATCTCA	10320
416	ACAACCTAA	TCATGTGGTA	TCATTGACAG	GCAAAGAAAG	AGAACTCAGT	GTAGGTAGAA	10380
418	TGTTTGAAT	GCAACCGGGGA	ATGTCAGAC	AGGTTCAAAT	ATTGGCAGAG	AAAATGATAG	10440
420	CTGAAAACAT	TTTACAATT	TTTCTGAAA	GTCTTACAAG	ATATGGTGT	CTAGAACTAC	10500
422	AAAAAAATT	AGAACTGAA	GCAGGAATAA	GTAACAAATC	AAATCGCTAC	AATGATAATT	10560
424	ACAACAATT	CATTAGTAAG	TGCTCTATCA	TCACAGATCT	CAGCAAATT	AATCAAGCAT	10620
426	TTCGATATGA	AACGTCATGT	ATTTGTAGT	ATGTGCTGGA	TGAACGTCAT	GGTGTACAAT	10680
428	CTCTATTT	CTGGTTACAT	TTAACATT	CTCATGTCAC	AATAATATGC	ACATATAGGC	10740
430	ATGCACCCCC	CTATATAGGA	GATCATATTG	TAGATCTTAA	CAATGTAGAT	GAACAAAGTG	10800
432	GATTATATAG	ATATCACATG	GGTGGCATCG	AAAGGTGGTG	TCAAAACTA	TGGACCATAG	10860
434	AAGCTATATC	ACTATTGGAT	CTAATATCTC	TCAAAGGGAA	ATTCTCAATT	ACTGCTTTAA	10920
436	TTAATGGTGA	CAATCAATCA	ATAGATATAA	GCAAACCAAT	CAGACTCATG	GAAGGTCAAA	10980
438	CTCATGCTCA	AGCAGATTAT	TTGCTAGCAT	TAATAGCCT	TAAATTACTG	TAAAGAGT	11040
440	ATGCAGGCA	AGGCCACAAA	TTAAAAGGAA	CTGAGACTTA	TATATCACGA	GATATGCAAT	11100
442	TTATGAGTAA	AACAATTCAA	CATAACGGT	TATATTACCC	AGCTAGTATA	AAGAAAGTCC	11160
444	TAAGAGTGGG	ACCGTGGATA	AACACTATAC	TTGATGATT	CAAAGTGTAGT	CTAGAATCTA	11220
446	TAGGTAGTT	GACACAAGAA	TTAGAATATA	GAGGTGAAAG	TCTATTATGC	AGTTAATAT	11280
448	TTAGAAATGT	ATGGTTATAT	AATCAGATTG	CTCTACAAATT	AAAAAAATCAT	GCATTATGTA	11340
450	ACAATAAACT	ATATTGGAC	ATATTAAGG	TTCTGAAACA	CTTAAAAACC	TTTTTTAATC	11400
452	TTGATAATAT	TGATACAGCA	TTAACATTGT	ATATGAATT	ACCCATGTTA	TTGGGTGGTG	11460
454	GTGATCCCAA	CTTGTATAT	CGAAGTTCT	ATAGAAGAAC	TCCTGACTTC	CTCACAGAGG	11520
456	CTATAGTTCA	CTCTGTGTC	ATACTTAGT	ATTATACAAA	CCATGACTTA	AAAGATAAAC	11580
458	TTCAAGATCT	GTCAGATGAT	AGATTGAATA	AGTTCTTAAC	ATGCATAATC	ACGTTTGACA	11640
460	AAAACCTAA	TGCTGAATT	GTAACATTGA	TGAGAGATCC	TCAAGCTTTA	GGGTCTGAGA	11700

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/444,067

DATE: 05/03/2001
TIME: 12:06:24

Input Set : N:\Crf3\RULE60\09444067.txt
Output Set: N:\CRF3\05032001\I444067.raw

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]